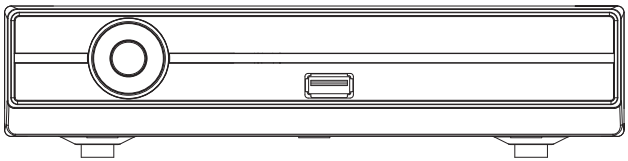
DENVER®

HIGH Definition Digital Receiver

DMB-112HD



DVB-T PLAYER

FAQ – DENVER DMB-112HD

Congratulations with your new DVB-T tuner. With this settop box you can enjoy digital TV signal, and get HD channels in super quality.
To get the good signal, it takes a proper antenna, and good cables with proper plugs and assembling. If you don't have this, it can give bad receival of channels.

Active antenna: DENVER DMB-112HD can give 5V to an active antenna. Ifyou want to use this you have to turn it on in the setup menu.

Sorting channels: When you have tuned in channels, they will normally be placed in the order they are received from the signal provider. If you want to change this order, you have to turn off LCN in the setup menu. Then you can put in channels in the order you want.

Auto shutoff function: By standard a powersave function is turned on, and it enables the box to turn off after 3 hours if there is no interaction from user (remote control is not used within 3 hours). This can be turned off in setup menu under "auto standby".

Record on USB: Your new DVB-T box can record on USB units. It is importnat that the USB unit is formatted in FAT32, and if you use an external harddisc it need to have its own powersupply. Otherwise it won't get enough power. When you record DVB-T singal, the filesize can be very large, especially from HD channels. Therefore you should get a large USB stick or external harddisc if you want to record a lot.

Digital Sound output: Please notice that you won't get any sound in your TV, if you set digital output to RAW. This function is ment for use with external surround amplifier. If you use TV as sound source, then please remember to keep digital output as PCM.

Updates: For most of our models we will get updates with improvements. Please look at our website: www.denver-electronics.com if there are any updates for the existing model.

Problems & how to solve them:
•If a unit won't record, then please check filesystem on USB stick/hdd. It is normally because of wrong filesystem that the unit won't record.
•If unit says "no USB unit". Then again, check filesystem. It has to be FAT32.
•Program is pixelating?? This is typically caused by bad antenna/receival. Please make sure the antenna is correct. In Denmark you can use www.digi-tv.dk to find correct antenna settings. In other countries, please check your providers homepage.
•Box is turning off automatically??.. If the autostandby function is turned on, the box will turn off after 3 hours, if you haven't used the remote control. If you want to turn this off, please do in setup menu. (recordings are being made even if autostandby is turned on)

Important Safety Instructions

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings, install in accordance with the instructions.
8) Do not install near any heat sources such as radiations, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized plug. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protected the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Unplug this apparatus during lighting storms or when unused for long periods of time.
13) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
14) Mains plug is used as the disconnect device, the disconnect device shall remain readily operable.
15) The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloth, curtains, etc.
16) No naked flame sources, such as lighted candles, should be placed on the apparatus.
17) Attention should be drawn to the environmental aspects of battery disposal.
18) The use of apparatus in moderate climate.
19) The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

WARNING: The batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type. (Only for with Lithium ion battery apparatus)

WARNING: The excessive sound pressure from earphones and headphones can cause hearing loss. (Only for with earphones port apparatus)

The symbol indicates that dangerous voltages constituting a risk of electric shock are present within this unit.

The symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

This symbol indicates that this product incorporates double insulation between hazardous mains voltage and user accessible parts. When servicing use only identical replacement parts.

This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

Safety Instructions

- Always read the safety instructions carefully
- Keep this Instruction Manual for future reference
- Keep this device away from humidity
- Lay this device on a reliable flat surface before setting it up
- Do not stand it on soft furnishings
- The power cable/disconnect device shall remain easy to operate/disconnect.
- If any of the following situation arises, get the Set Top Box checked by a service technician:
  - ✍ It has been exposed to moisture
  - ✍ It has been dropped and damaged
  - ✍ It has obvious sign of breakage
  - ✍ It has not been working well or you cannot get it to work according to the Instruction Manual

Warning

- To prevent the risk of electric shock, do not open the cover or the back of the receiver.
- Do not block the ventilation holes of the device. Leave appropriate gap above and around it to allow for adequate ventilation.
- Do not place the device in an unventilated cabinet or on top of a unit which emits heat.

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Disclaimer

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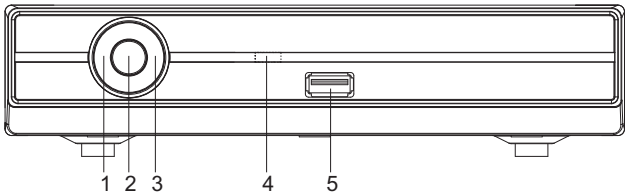
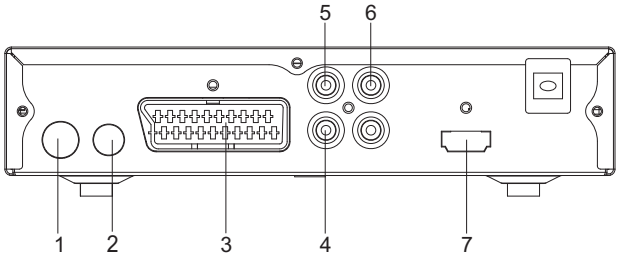
Front Panel



1.CHANNEL DOWN: Used to change channels without using the Remote Control.
2.POWER BUTTON: Push to turn on/off the main power supply.
3.CHANNEL UP : Used to change channels without using the Remote Control.
4.REMOTE CONTROL SENSOR: Used to receive the signal from the Remote Control.
5.USB: For software upgrade and media playback.

Rear Panel



1.RF IN: This socket connects to your external Aerial
2.RF LOOP THROUGH:
This socket will feed the RF signal to either your TV or another video systerm
3.SCART OUT : Connect the scart cable to the TV set.
4.VIDEO OUT: This socket outputs composite video signal.
5.SPDF OUT: audio output
6.AUDIO L/R: These sockets output Analog Audio L/R signal.
7.HDMI: High definition audio and video output used to connect to a HDMI device.support v1.3c.

Remote Control Instruction

POWER: turn on or off the receiver
<0>-<9>: Numeric keys.
CH-/CH+: Program changing keys.
MENU: Display main menu on TV screen, and press again to disappear menu.
OK: To confirm current setting, or display all programs in no-menu mode.
VOL-/ VOL+: adjust the volume.
▲▼◄► : Press to move the cursor
EPG: Shows the Electronic Program Guide.
FAV: Displays your favorite channels list. Press FAV again to access to the other favorite lists.
V-FORMAT: Switch the HDMI 720P and 1080i.
RECALL : Go back to the previous viewed channel.
Red/green/yellow /blue: Use to navigate between pages in teletext mode.
TTX: Switch on Teletext, if current channel has this option, and use EXIT key to quit Teletext.
SUBTITLE: Display subtitle options (availability depends on the channel).
LANG: Change the Audio language and Left/Right channel (availability depends on the channel).
EXIT: Use this key to quit current menu.
INFO: Display information about the current channel.
TV/RADIO: Switch between Digital Radio and DVB-T modes.
MUTE:to mute or restore the sound.
PAGE+/PAGE -: To navigate inside the menus.
LIST: Display all programs.
ASPECT: change the aspect of the picture.
TIMESHIFT: shortcut for timeshift function.
TIMER: shortcut for scheduled program.
PVR: shortcut for PVR.
PVR and Multimedia keys:

▶ ⏸ ■ ●
PLAY PAUSE STOP REC

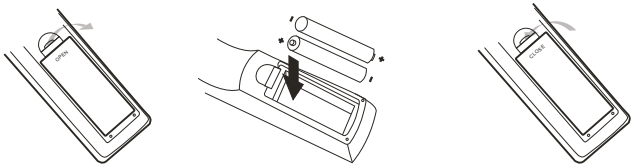
⏪ ⏩ ⏮ ⏭
REW FF PREV NEXT

Installing the Batteries

Remove the battery cover from the Remote Control and put 2xAAA size batteries inside the compartment.

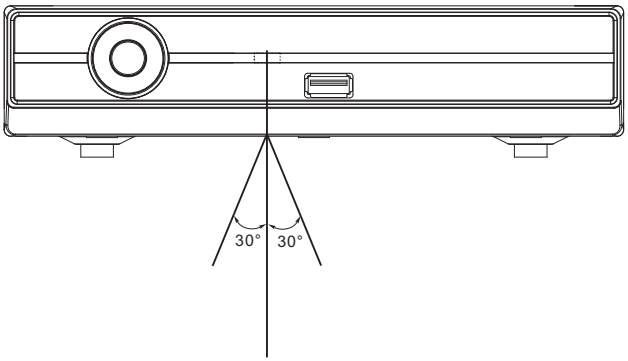
The diagram inside the Battery Compartment shows the correct way to install the batteries.

1.**Open the cover** 2.**Install batteries** 3.**Close the cover**



Using the Remote Control

To use the Remote Control, point it towards the front of the Digital Set Top Box.The Remote Control has a range of up to 7 metres from the Set Top Box at an angle of up to 60 degrees.

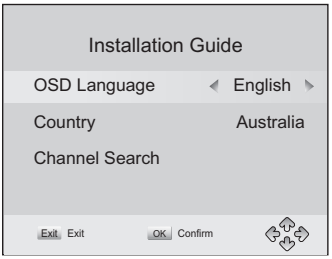


The Remote Control will not operate if its path is blocked.

Sunlight or very bright light will decrease the sensitivity of the Remote Control.

First Time Installation

After all connections have been made properly, switch on TV and make sure the unit is connected to the Main Power. Press Power button to switch the unit on.
If you are using the unit for the first time or have restored the unit to Factory Default, the Installation Guide Menu will appear on yourTV screen.

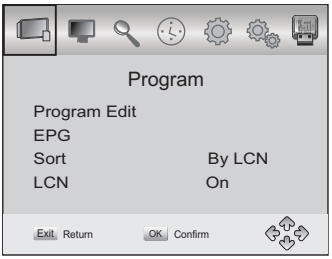


(1) [OSD Language] press ◀ / ▶ key to select a language.
(2) [Country] press ◀ / ▶ key to select your country of residence.
(3) [Channel Search] press ▶ or OK key to begin Automatic channel search.
(4) Once channel tuning is complete, you can start watching TV programs.

Basic Operation

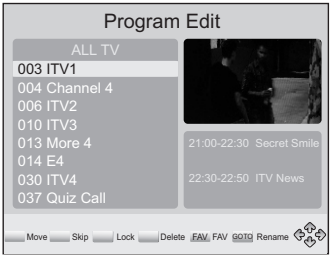
(1). Program Manage Settings

To access the Menu, press the MENU button and select [Program]. Using the▲ /▼◀ / ▶ keys to navigate through the menu. The Menu provides options to adjust the Program Manage Settings. Select an option and press OK or ▶ to adjust that setting. Press the EXIT button to exit the Menu.



（a) Program Edit

To edit your program preferences (lock, skip, fav, move delete or rename), you will need to enter the Program Edit Menu. This Menu requires a password to access. Enter the default password '0000'. The master unlock password: 8888



Set Favourite Channels

You can create a shortlist of favourite programs that you can easily access.

Set Favourite TV or Radio program:

1 .Select your desired channel then press the FAV button.and the favourite Type dialogue box will appear, choose the type you want and press OK. A heart-shaped symbol will appear and the channel is marked as a favourite.

2. Repeat the previous step to select more Favourite channels.

3. To confirm and exitthe Menu，press the EXIT key.

Disable Favourite TV or Radio Channel:

Select the Favorite channel and press FAV button on the remote control to cancel.select disable in the dialogue and press OK.

View Favourite Channel

1 .While in normal viewing mode, press Fav button and the Fav Menu will appear.

2. Press ▲/▼ ◀/▶ to browse through your Fav Channels.

3. Press OK to select your favourite channel.

Delete a TV or Radio Program

1 .Select the Program and then press the BLUE button.
Awarning message will appear. Press OK to delete the channel

2. Repeat the previous step to select more channels to delete.

Skip TV or Radio Channel

1 .Select the channel you would like to skip and press the GREEN button
A skip symbol is displayed. The channel is marked as a skip.

2. Repeat the previous step to skip more channels.

3. To save your settings and exit the menu，press EXIT key.

Disable the Skip Channel function

Select the Skip channel and press the GREEN button on the remote control to cancel.

Move a TV or Radio Program

1 .Select the preferred channel then press the RED button. A move symbol will appear.

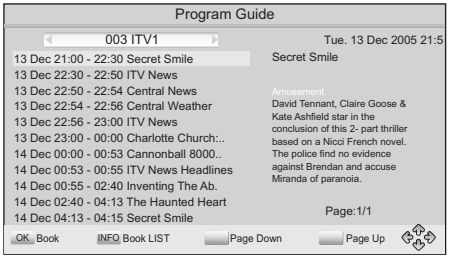
2. Press ▲/▼ to move the channel.
3. Press OK to confirm.
4. Repeat the above steps to move more channels.

Lock Program

You can lock selected programs for restricted viewing.
Lock a TV or Radio channel:
1.Select the preferred channel then press the YELLOW button. A lock-shaped symbol is displayed. The channel is now marked as locked.
2. Repeat the previous step to select more channels.
3. To confirm your settings and exit the menu, press the EXIT button.
4. Press the YELLOW button to disable the locked channels function.
5. To view the locked channels, you will be required to enter either the default password '0000' or your last set password.The master unlock password is '8888'.

(b) EPG (Electronic program guide)

The EPG is an on-screen TV guide that shows scheduled programs seven days in advance for every tuned channel. Press the EPG button on the Remote Control to access the guide.


Program Guide
003 ITV1
Tue. 13 Dec 2005 21:5
13 Dec 21:00 - 22:30 Secret Smile
13 Dec 22:30 - 22:50 ITV News
13 Dec 22:50 - 22:54 Central News
13 Dec 22:54 - 22:56 Central Weather
13 Dec 22:56 - 23:00 ITV News
13 Dec 23:00 - 00:00 Charlotte Church:..
14 Dec 00:00 - 00:53 Cannonball 8000..
14 Dec 00:53 - 00:55 ITV News Headlines
14 Dec 00:55 - 02:40 Inventing The Ab.
14 Dec 02:40 - 04:13 The Haunted Heart
14 Dec 04:13 - 04:15 Secret Smile
Secret Smile
Amusement
David Tennant, Claire Goose & Kate Ashfield star in the conclusion of this 2- part thriller based on a Nicci French novel. The police find no evidence against Brendan and accuse Miranda of paranoia.
Page:1/1
OK Book
INFO Book LIST
Page Down
Page Up

You can use the ▲/▼ ◄/►key to select the preferred program. if there is more than one page of information, use the BLUE button for page up and the YELLOW button for page down.

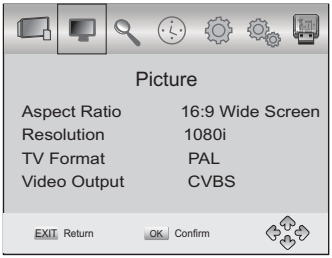
(c) SORT

Sort your channels from the following options:
By LCN--Sort the channels in ascending order
BY Service Name --Sort the channels in alphabetical order.
By Service ID --Sort the channels according to the station.
By ONID--Sort the channels according to ONID.

(d) LCN--Logical channel number:

Set LCN on or off.

(2).Picture Setting
To access the Menu，press MENU then select [Picture] using the ◀/▶ key. The Menu provides options to adjust the video settings. Press ▲/▼ to select an option and press ◀/▶ to adjust that setting.Press EXIT to exit the menu.



(a) Resolution
You can change this setting if the picture resolution does not appear to be correct. This setting is to match the most common setting for HDMI.
[480P/i]: for NTSC TV system.
[576P/i]: for PAL TV system.
[720P]: for NTSC or PAL TV system.
[1080i]: for NTSC or PAL TV system.

(b) TV Format
If the picture does not appear to be correct you can change this setting. This should match the most common setting for TVs in your country.
[NTSC]: for NTSC system TV.
[PAL]: for PAL system TV.

(c) Aspect Ratio
Press◀/▶to choose

(d) Video Output
Press◀/▶to choose RGB or CVBS

(3).Channel Search

To access the menu, press MENU and select [Search Channel] using the ◀ / ▶ keys.

This Menu provides options to adjust the Search Channel settings.

Press ▲/▼ to select an option and press ◀ /▶ to adjust the settings.

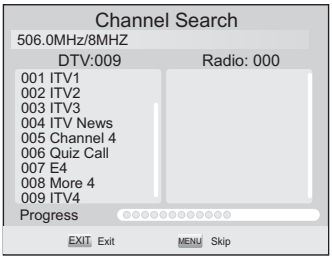
Press EXIT to exit the Menu

(a) Auto Search

This option will automatically search for channels and save them once the scanning is complete. All previously saved channels and settings will be deleted.

1 .Select [Auto Search] and press OK or ▶ to start channel search.

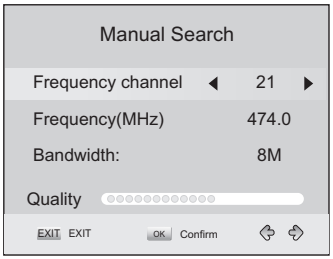
2. To cancel channel search, press EXIT. Any channels that have been found will be saved.



(b) Manual Search

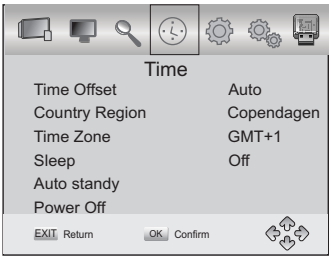
This option allows you to scan for new channels without deleting previously saved channels and settings.

1 .Select [Manual Search] then press OK or ▶ . The channel search screen will appear.



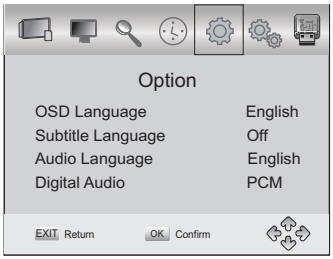
2.Press the ◀/▶ key to select the channel frequency.
3. Press OK to start searching channels.
If a channel is found, it is saved and added to the channels list. If channels can not be found during searching, the unit will exit automatically.

(c) Country
Select your country of residence
(d) Antenna Power
Enable Antenna Power if an external active antenna is connected.
(4).Time Setting
To access the Menu, press MENU then select [Time] using the ◀/▶ keys. The Menu provides options to adjust the time settings.
Press ▲/▼ toselect an option and press ◀/▶ to adjust the settings. Press EXITto exit the menu.

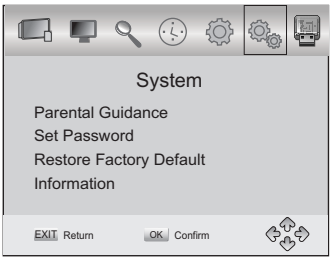


(a) Time offset
Select auto or manual for GMToffset adjustments.
(b) Country Region
Select the Country Region when [Time Offset] is set to Auto.
(c) TimeZone
Select the Time Zone Offset when [Time Offset] is set to Manual
(d) Sleep
Select a time to sleep
(e) Auto stadby function
This function shuts down automatically after 3 hours if no user interference has been done during these hours,2 minutes before shut down a warning message will be shown on the tv.
(f) Power Off
to set when to turn on or turn off this unite itselfly.

(5). Option
To access the Menu, press MENU and select [Option] using the ◀/▶keys. The menu provides options to adjust the OSD Language,Subtitle Language and Audio Language.
Select an option and press ◀/▶ to adjust thesetting.
Press EXITto exit the Menu.
(a)OSD (On Screen Display) Language
Select an OSD language.
(b) Subtitle Language
Select the preferred subtitle language.
(c) Audio Language
Select the preferred audio language for watching TV channels.
If the language is not available, the default program language will be used.
(d)Digital Audio
Select the digital audio model.



(6). System Setting
To access the Menu, press MENU and select [System] using the ◀/▶ keys. The menu provides options to adjust the system settings.
Press the ▲/▼ key to select an option and press ◀/▶ to adjust the setting.Press EXIT to exit the Menu.



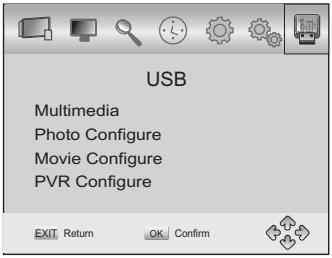
(a) Parentel Saidance
Press ▶ to enter and input the password .the default:0000.

(b) Set Password
Set or change the password for locked programs. Enter your old password or the default password '0000'. You will then be asked to enter your new password.Press OK button to confirm your new password.
Once it is confirmed，press EXIT to exit the Menu.The master unlock password is '8888'.

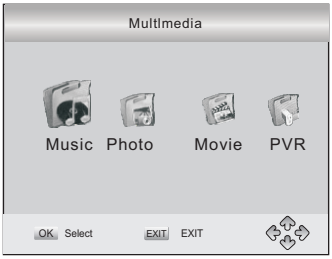
(b) Restore Factory Default
Reset your Set Top Box to the Default Factory Settings.
In Main Menu select [Restore Factory Default] using the◀ /▶ keys and press OK or ▶ to select. Enter your password or the default password '0000' and press OK to confirm. This option will delete all preset channels and settings. The master unlock password is '8888'.

(c) Information
View model, hardware and software information

(7). USB
To access the Menu, press the MENU button and select [USB] using the ◀ /▶ keys. The menu provides options to playback Music, Photo and Multimedia files. It can support AVI、MP3, WMA, JPEG and BMP formats.
The unit will only support USB device with FAT32 file system.
It will not support NTFS file system.



(a)Multimedia:
When a USB device is attached you can select from the Music, Photo or Movie options in this menu using the ◀ /▶ keys and OK to select. If a USB device is not connected，the warning message "No USB device is Found" will appear.



(b)Photo configure:
-Slide Time: adjust slide show interval to 1—8 seconds.
-Slide Mode: adjust slide show effect as mode 0—59 or random
-Aspect Ratio:
[Keep]: Play picture in its original aspect.
[Discard]: Play picture in full screen mode.

(c) Movie Configure:
Subtitle Specific:
[Small]: Displays the subtitle as small mode.
[Normal]:Displays the subtitle as normal mode.
[Big]: Displays the subtitle as big mode.
Subtitle BG:
[White]: Displays the subtitle in white background.
[Transparent]:Displays the subtitle in transparent background.
[Grey]: Displays the subtitle in grey background.
[Yellow green]: Displays the subtitle in yellowgreen background
Subtitle Font Color:
[Red]: Displays Subtitle in red font.
[Blue]: Displays Subtitle in blue font.
[Green]:Displays Subtitle in green font.
[White]: Displays Subtitle in white font.
[Black]:Displays Subtitle in black font.

(d) PVR Configure:
Press ▶ to enter and get the information of the device and you can Format the device.

software update: insert the USB device with the update file named: x.ap, press MENU and select USB->MultiMedia->Music,and select the update file,press OK. when finish, it will display: SOFTWARE UPGREADE COMPLETE, PLEASE RESTART.

Note:
-We cannot guarantee compatibility (operation and/or bus power) with all USB mass storage devices and assume no responsibility for any loss of data that may occur when connected to this unit.
-With large amounts of data, it may take longer for the system to read the contents of a USB device.
-Some USB devices may not be properly recognised.
-Even when they are in a supported format, some files may not play or display depending on the content.

(8).Recording Living TV

The most unique feature is its ability to record living TV. There is two ways you can headle this. the first is to connect a USB storage device to the usb port and press the record button on the remote. The other way is to schedule a program to record using the EPG.
To schedule a recording following the below steps:

Press the EPG button on the remote.
Highlight the channel you wish to record
press the OK button

The schedule window will be displayed with a number of options.
You will be able to select from the following two options:

•Running mode: Select how often you want to record the time slot.
•Reserve type: Select Record or Play.

Once you have made your selections press the OK key to confirm the recording time slot.

If you want to delete a Scheduled recording, go to the EPG and press the green button to view the list of scheduled events. Use the arrow keys on the remote to highlight the event you wish to delete and press red button to delete.

The recording files can not be deleted on this unit, pls delete the files on a computer . The TV program is recorded to file at .PVR format,which can be played back on this unit or PC using a suitable player, but can not be played back on DVD or PDVD.

For recording the high definition TV programs, the version of USB device should be 2.0 or above, otherwise the unit may can not record the HD programs correctly.
When recording to usb stick or external hard disc on this model, you have to wait a few seconds before pushing record button after inserting the media. Otherwise the unit can freeze in the signal. If that happens, then please turn off the power and connect again to fix this.

Troubleshooting

Problem	Potential Reasons	What to do
No picture	Power isn't connected	Connect the power
	The power switch is not on	Switch on the power
Screen shows "No Signal"	DVB-T cable not connected	Plug in the DVB-T cable
	Incorrect setting	Reset setting
No sound from speaker	No or incorrect connection with audio cable	Connect the audio cable correctly
	Sound on mute	Turn off mute function
	Incorrect sound track	Try another sound track
Only sound, no image on the screen	No or incorrect connection with AV cable	Make sure cables are connected correctly
	The program is a radio program	Press <TV/RADIO> key to shift into TV mode
Remote Control is not responding	The battery is exhausted	Change battery
	Remote Control is not facing or close enough to the Set Top Box	Adjust the position of the Remote Control and move closer to the unit
Picture is breakingup	The signal is too weak	Check aerial cable and connections

Technical Specifications

Item	Sub Item	Parameter
Tuner	Input Frequency	170~230MHz 470~860MHz
	RF Input level	-78~-82dBm
	IF Bandwidth	7MHz and 8MHz
	Modulation	QPSK,16QAM,64QAM
Video	Decoder Format	MPEG4 AVC/H.264 HP@L4 MPEG2 MP@ML.HL
	Output Format	NTSC:480i/p, 720P, 1080i, PAL ,576i/P,720P, 1080i,
	Output Port	1XHDMI(1.3C),1Xscart ,1XCVBS
Audio	Decoder Format	MPEG-1 (layer1&2&3),WMA,AC3
	Audio output	2XRCA(L/R) SPDF
USB2.0	Supported Capacity	160GB
	Supported Media	MP3,WMA,JPEG,BMP,AVI
Power	Supply Voltage	AC 220-240V 50/60Hz
	Working Power Consumption	8W
	Standby power	<1W
Weight	0.8kgs	
Size	190X153X46mm	

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CE

Electric and electronic equipment and included batteries contains materials, components and substances that can be hazardous to your health and the environment, if the waste material (discarded electric and electronic equipment and batteries) is not handled correctly.

Electric and electronic equipment and batteries is marked with the crossed out trash can symbol, seen below. This symbol signifies that electric and electronic equipment and batteries should not be disposed of with other household waste, but should be disposed of separately.

As the end user it is important that you submit your used batteries to the approriate and designated facility. In this manner you make sure that the batteries are recycled in accordance with legislature and will not harm the environment.

All cities have established collection points, where electric and electronic equipment and batteries can either be submitted free of charge at recycling stations and other collection sites, or be collected from the households. Additional information is available at the technical department of your city.

Please fill the blank with the model number of this player for future reference

Model no.: